

# Determinatives and Markers by Sign Order Sumero-Akkadian Cuneiform



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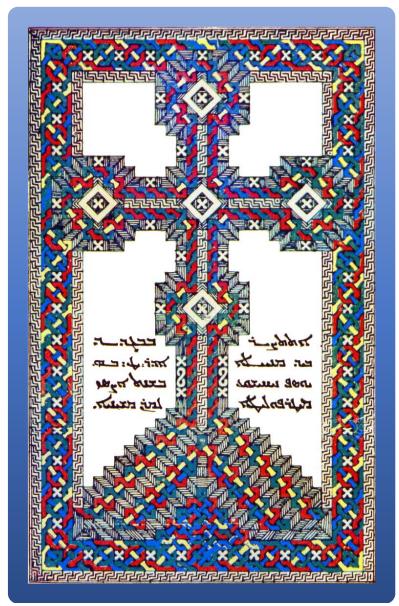
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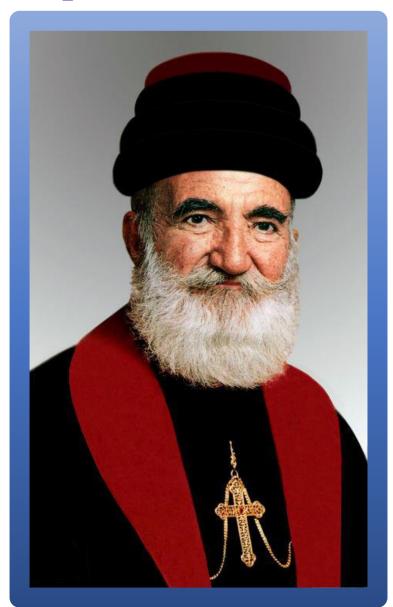
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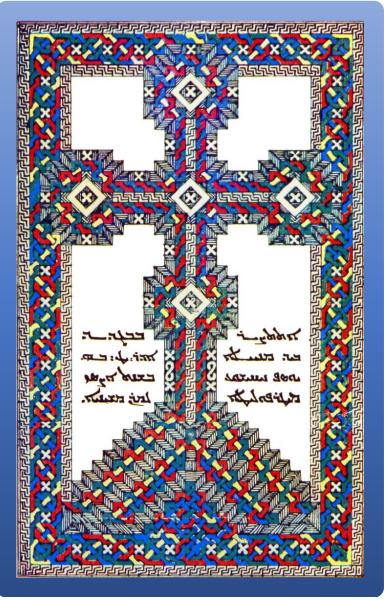
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# I dedicate this book in memory of His Holiness † Mar Yousip Khnanisho Archbishop of Shamisdin and Rustaqa







Seventy-Two Years of Dedication Toward His People, Church and Assyrian Nation Thursday, May 18, 1893 (Mar Ishoo, Turkey) – Sunday, July 3, 1977 (Baghdad, Iraq)

### **Modifiers Overview**

Modifier	Meaning		Sign	Exam	ole
-gunû	four extra wedges	DU		DU-gunû	
-šeššig	added še-sign	DU		DU-šeššig	DATA DATA
-tenû	slanting	LÚ		LÚ-tenû	
-nutillû	unfinished	SAG		SAG-nutillû	
-zidatenû	slanting right	AŠ	<b></b>	AŠ-zidatenû	4
-kabatenû	slanting left	AŠ	<b>—</b>	AŠ-kabatenû	
- <digits>°</digits>	rotated	NAGA		NAGA-180°	

## **Operators Overview**

Operator	Meaning	Example	Sign
•	beside	DU.DU	
×	containing	NÍNDA×AN	*
×	containing/group	NÍNDA×(ŠE.AŠ.AŠ)	
&	above	DU&DU	
00	crossing	(AŠ&AŠ&AŠ)%(AŠ&AŠ&AŠ)	
@	opposing	LUGAL@LUGAL	
3×	repeated	3×AN	
4×	repeated	4×LÚ	



	Vowels					Order		Exar	nples			
A	E	I	U	a	е	i	u	first	ab	me	lim	šutul
Á	É	Í	Ú	á	é	í	ú	second	áb	mé	lím	šútul
À	È	Ì	Ù	à	è	ì	ù	third	àb	mè	lìm	šùtul
$A_4$	$E_4$	I <sub>4</sub>	$U_4$	a <sub>4</sub>	<b>e</b> <sub>4</sub>	i <sub>4</sub>	<b>u</b> <sub>4</sub>	fourth	ab <sub>4</sub>	me <sub>4</sub>	lim <sub>4</sub>	šutul <sub>4</sub>
$A_{x}$	$E_x$	Ix	Ux	$a_x$	e <sub>x</sub>	ix	$u_x$	to be determined later	$ab_x$	mex	$lim_{x}$	šutul <sub>x</sub>

Consc	Consonants Name		Phonetic Pronunciation in English
Э	Э	aleph	glottal stop as 'a' in apostrophe
Ĝ	ĝ	ng	like sing or ring or long or young or coming
Ĥ	ђ	kh	Khartoum or shei <mark>kh</mark>
Ş	Ş	tsade or tzadi or sadhe	as deeper 's' in saw
Ś	Ś	shin or sheen	as ' <mark>sh</mark> ' in <mark>sh</mark> y
Š	Š	shin or sheen	as ' <mark>sh</mark> ' in <mark>sh</mark> y
Ţ	ţ	teth or tet	as deeper 't' in tall

Determinative / Marker	Sign	Description
diš.aš	<b>Y</b> >	repetition marker
didli	<b>&gt;&gt;</b>	marker after plurals
d, dingir, an		determinative: before divine names
àm	TY A	determinative: after ordinal numbers
ta.àm	TYY #	determinative: after distributive numbers
kuš		determinative: before leather items, animal hide
iti, itu	A STATE OF THE PARTY OF THE PAR	determinative: before month names

Determinative / Marker	Sign	Description
zabar		determinative: before copper objects (seldom)
uru		determinative: before cities, places
zabar		determinative: before copper objects (seldom)
mušen		determinative: after birds
gi	M 44	determinative: before (objects made with) grass, reeds
gada		determinative: before linen garments
sa		determinative: before woven items and similar

Determinative / Marker	Sign	Description
iku	ATTITIVE OF THE PARTY OF THE PA	determinative: after surface measures
$mul_5$	ATTITA ATTITA	determinative: before stars
elep, má	N Y Y	determinative: before ship designations
urudu		determinative: before metal and metal objects
mul	***	determinative: before stars, planets; N/LB instead of $u1$ or $te/m u1$
ta.àm	TYY #	determinative: after distributive numbers
kám	No sign exist	determinative: after ordinal numbers

Determinative / Marker	Sign	Description
uzu		determinative: before parts of the body and pieces of flesh
anše/anšu		determinative: before equids and camels
kaš	AT TO	determinative: before varieties of beer
šim, šem	THE TOTAL PROPERTY OF THE PARTY	determinative: before aromatic and resinous plants and similar
ia4, na4, zá	AP X	determinative: before stones
geš, giš, ișu		determinative: before trees, wooden objects, implements
gu <sub>4</sub> , gud		determinative: before oxen and cows

Determinative / Marker	Sign	Description
ú		determinative: before plants and (sometimes) drugs
é		determinative: before buildings and parts of buildings
dug	ATTIVE STATE OF THE STATE OF TH	determinative: before vessels
lú	NAME OF THE PARTY	determinative: before professions, clans, nationalities
sar	**************************************	determinative: after garden plants
nar		determinative: before musicians (very seldom)
:	4	separation marker

— **\*** — **\*** — **\*** — **\*** — **\*** —

Determinative / Marker	Sign	Description
•	4	repetition and separation marker
kur	***	determinative: before lands and mountains
še	4444	determinative: before grains
múl, te		determinative: before stars
:	<b>\{</b>	separation marker
zabar		determinative: before copper objects (seldom)
ђі.а	₹\YY	marker <i>after</i> plurals and collectives (not persons or deities)

Determinative / Marker	Sign	Description
kam	No sign exist	determinative: after numbers, especially ordinals
im, tu <sub>15</sub> , tum <sub>9</sub> , tumu		determinative: before the 4 directions, winds, clay objects
áb		determinative: before stars instead of mul
ul		determinative: before stars
ù		repetition marker
ki		determinative: after geographical and place names
kimin	No sign exist	repetition marker

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Determinative / Marker	Sign	Description
diš, I, m, p		determinative: before (mainly masculine) personal names
diš	7	marker for beginning sentences and paragraphs
diš.aš	<b>Y</b>	repetition marker
me, méš		marker after plurals
meš		marker after plurals (mainly logograms) and iterative verbs
íd		determinative: before rivers and canals
túg		determinative: before clothing and cloth
<del>***</del>	-*-*-**	11

Determinative / Marker	Sign	Description
zì, zíd		determinative: before types of meal
udu	片	determinative: before sheep and goats
síg, sík, siki		determinative: before types of wool and woolen items
II, min		marker after duals
min		repetition marker
àm	TY A	determinative: after ordinal numbers
ta.àm	**************************************	determinative: after distributive numbers

Determinative / Marker	Sign	Description
íd	TY *	determinative: before rivers and canals
ђі.a	₹\Y Y	marker after plurals and collectives (not persons or deities)
ђа, ku <sub>6</sub> , kua	YYY YYY	determinative: after fish
ninda	AAA	determinative: before varieties of baked goods
f, mí, munus, sal		determinative: before feminine people, animals, professions

#### References

Bord, Lucien-Jean and Remo Mugnaioni. L'Écriture Cunéiforme: Syllabaire Sumérien, Babylonien et Assyrien. Paris: Librairie Orientaliste Paul Geuthner S.A., ©2002.

Borger, Riekele, and Rykle Borger. *Mesopotamisches Zeichenlexikon*. Vol. 305. Ugarit Verlag Münster, ©2004.

Ellermeier, Friedrich, and Riekele Borger. Sumerisches Glossar: Führer durch die neuere sumerologische Fachliteratur. Die sumerischen Lautwerte: nach dem Alphabet, nach den "Zeichennamen" und nach den Keilschrftzeichen geordnet. Selbstverlag dr. Friedrich Ellermeier, ©1979-©1980.

Labat, René and Florence Malbran-Labat. Manuel D'Épigraphie Akkadienne: Signes, Syllabaire, Idéogrammes. 6th ed. Paris: Librairie Orientaliste Paul Geuthner S.A., ©1988.

Miller, Douglas B. and R. Mark Shipp. An Akkadian Handbook: Paradigms, Helps, Glossary, Logograms, and Sign List. 2nd ed. Winona Lake, Ind.: Eisenbrauns, ©2014.